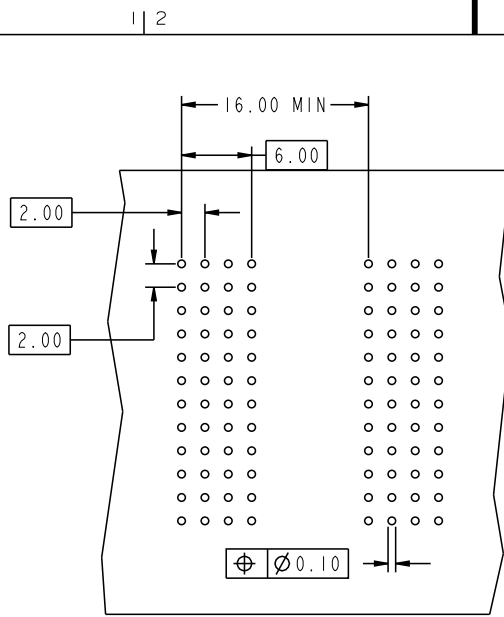




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REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
1	5.00	4.30
2	5.75	4.30
3	6.50	4.30
4	7.25	4.30
5	5.00	13.60
6	5.75	13.60
7	6.50	13.60
8	7.25	13.60
9	5.00	17.00
10	5.75	17.00
11	6.50	17.00
12	7.25	17.00
13	8.25	4.30
14	8.25	13.60
15	8.25	17.00
19	8.00	4.30
20	8.00	13.60
21	8.00	17.00

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com		
litr	ecm no.	dr	date	linear	0.X ±0.3	projection	COPY	title	METRAL SIGNAL HEADER			
AG					0.XX ±0.13			2 MOD, 4 ROW PRESS-FIT				
				angles	.XXX ±.051		MM	product family	METRAL		code	213
				dr	T.BRUNGARD 11/19/99	scale	size	dwg no	70233		sheet	2
				engr	M.STRAWER 11/19/99	1:1	A					
				chr	M.STRAWER 11/19/99							
				appd	M.STRAWER 02/29/00							
sheet index	revision sheet							code code	22526			

PDM: Rev:AG

STATUS:Released

Printed: Feb 20, 2010



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METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X10 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1
	C	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2
	A	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X15 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3	3	3	3	3
	C	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X20 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5
	C	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6
	A	7	7	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X11 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1
	A	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X16 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X21 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5
	A	5	5	5	5	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X12 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1
	A	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X17 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3	3	3	3	3
	C	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2
	A	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X22 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5
	A	7	7	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X13 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3	3	3	3	3
	C	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2
	A	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X18 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3	3	3	3	3
	C	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1
	A	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X23 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7
	C	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6
	A	7	7	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X14 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4	4	4
	C	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3
	A	4	4	4	4	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X19 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4	4	4
	B	4	4	4	4	4	4	4	4	4	4
	A	4	4	4	4	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
70233-X24 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8	8	8	8	8
	C	7	7	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7	7	7
	A	8	8	8	8	8	8	8	8	8	8

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.13	projection	title	METRAL SIGNAL HEADER			
AG				angles	.XXX ±.051		2 MOD, 4 ROW PRESS-FIT				
				dr	T.BRUNGARD 11/19/99		product family	METRAL			
				eng	M.STRAWER 11/19/99	size	dwg no	213			
				chr	M.STRAWER 11/19/99	scale	70233				
				appd	M.STRAWER 02/29/00	1:1	3				
sheet index	revision	sheet					code code 22526				



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METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X25 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7
	C	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7
	A	7	7	7	7	7	7	7	7
70233-X26 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6
	A	6	6	6	6	6	6	6	6
70233-X27 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7
	C	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6
	A	5	5	5	5	5	5	5	5
70233-X28 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7
	C	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5
	A	5	5	5	5	5	5	5	5
70233-X29 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8	8	8
	C	8	8	8	8	8	8	8	8
	B	8	8	8	8	8	8	8	8
	A	8	8	8	8	8	8	8	8

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X30 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9
	C	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11
70233-X31 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9
	A	9	9	9	9	9	9	9	9
70233-X32 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9
	A	11	11	11	11	11	11	11	11
70233-X33 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11
	C	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11
70233-X34 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12
	C	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11
	A	12	12	12	12	12	12	12	12

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X35 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11
	C	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11
70233-X36 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	A	10	10	10	10	10	10	10	10
70233-X37 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11
	C	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	A	9	9	9	9	9	9	9	9
70233-X38 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11
	C	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9
	A	9	9	9	9	9	9	9	9
70233-X39 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12
	C	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12
	A	12	12	12	12	12	12	12	12

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI	
lfr	ecn no.	dr	date	linear	0.X ±0.3	projection	www.fciconnect.com	title	
AG				angles	0.XX ±0.13		METRAL SIGNAL HEADER		
					.XXX ±.051		2 MOD, 4 ROW PRESS-FIT		
				dr	±2°	scale	product family	METRAL	code
				eng	T. BRUNGARD 11/19/99	1:1	size	dwg no	213
				chr	M. STRAWSER 11/19/99				sheet
				appd	M. STRAWSER 02/29/00				4
sheet index	revision	sheet							



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METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X40 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2
	B	4	4	4	4	4	4	4	4
	A	2	2	2	2	2	2	2	2
70233-X41 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2
	A	4	4	4	4	4	4	4	4
70233-X42 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1
	A	2	2	2	2	2	2	2	2
70233-X43 SEE NOTE 11 LEAD FREE OPTION	D	13	13	13	13	13	13	13	13
	C	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3
70233-X44 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3
	B	4	4	4	4	4	4	4	4
	A	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X45 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1
	C	2	2	2	2	2	2	2	2
	B	3	3	3	3	3	3	3	3
	A	4	4	4	4	4	4	4	4
70233-X46 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	19	19	19	19	19
	C	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3
70233-X47 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4
	B	13	13	13	13	13	13	13	13
	A	13	13	13	13	13	13	13	13
70233-X48 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	19	19	19	19	19
	C	19	19	19	19	19	19	19	19
	B	19	19	19	19	19	19	19	19
	A	19	19	19	19	19	19	19	19
70233-X49 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4
	C	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X50 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6
	B	8	8	8	8	8	8	8	8
	A	6	6	6	6	6	6	6	6
70233-X51 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6
	A	8	8	8	8	8	8	8	8
70233-X52 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5
	A	6	6	6	6	6	6	6	6
70233-X53 SEE NOTE 11 LEAD FREE OPTION	D	14	14	14	14	14	14	14	14
	C	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7
	A	7	7	7	7	7	7	7	7
70233-X54 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7
	B	8	8	8	8	8	8	8	8
	A	7	7	7	7	7	7	7	7

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI	
lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY	www.fciconnect.com	title	
AG				angles	0.XX ±0.13	projection		METRAL SIGNAL HEADER	
					.XXX ±.051			2 MOD, 4 ROW PRESS-FIT	
					0° ±2°		product family	METRAL	code
				dr	T.BRUNGARD 11/19/99		size	dwg no	70233
				eng	M.STRAWNER 11/19/99		sheet	5	
				chr	M.STRAWNER 11/19/99	scale	1:1		
				appd	M.STRAWNER 02/29/00				
sheet index	revision sheet								

Pro/E 3 cage code 22526 4

PDM: Rev:AG STATUS:Released Printed: Feb 20, 2010



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METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X55 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5
	C	6	6	6	6	6	6	6	6
	B	7	7	7	7	7	7	7	7
	A	8	8	8	8	8	8	8	8
70233-X56 SEE NOTE 11 LEAD FREE OPTION	D	20	20	20	20	20	20	20	20
	C	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7
	A	7	7	7	7	7	7	7	7
70233-X57 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8	8	8
	C	8	8	8	8	8	8	8	8
	B	14	14	14	14	14	14	14	14
	A	14	14	14	14	14	14	14	14
70233-X58 SEE NOTE 11 LEAD FREE OPTION	D	20	20	20	20	20	20	20	20
	C	20	20	20	20	20	20	20	20
	B	20	20	20	20	20	20	20	20
	A	20	20	20	20	20	20	20	20
70233-X59 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8	8	8
	C	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7
	A	7	7	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X60 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10
	B	12	12	12	12	12	12	12	12
	A	10	10	10	10	10	10	10	10
70233-X61 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	A	12	12	12	12	12	12	12	12
70233-X62 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9
	A	10	10	10	10	10	10	10	10
70233-X63 SEE NOTE 11 LEAD FREE OPTION	D	15	15	15	15	15	15	15	15
	C	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11
70233-X64 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11
	B	12	12	12	12	12	12	12	12
	A	11	11	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X65 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9
	C	10	10	10	10	10	10	10	10
	B	11	11	11	11	11	11	11	11
	A	12	12	12	12	12	12	12	12
70233-X66 SEE NOTE 11 LEAD FREE OPTION	D	21	21	21	21	21	21	21	21
	C	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11
70233-X67 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12
	C	12	12	12	12	12	12	12	12
	B	15	15	15	15	15	15	15	15
	A	15	15	15	15	15	15	15	15
70233-X68 SEE NOTE 11 LEAD FREE OPTION	D	21	21	21	21	21	21	21	21
	C	21	21	21	21	21	21	21	21
	B	21	21	21	21	21	21	21	21
	A	21	21	21	21	21	21	21	21
70233-X69 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12
	C	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11

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lfr	ecn no.	dr	date	linear	0.X ±0.13	projection	title	www.fciconnect.com	
AG				angles	.XXX ±.051		METRAL SIGNAL HEADER		
				dr	T.BRUNGARD 11/19/99		2 MOD, 4 ROW PRESS-FIT		
				eng	M.STRAWER 11/19/99		product family		code
				ctr	M.STRAWER 11/19/99		METRAL		213
				appd	M.STRAWER 02/29/00	size	dwg no	sheet	
sheet	revision					scale	70233	6	
index	sheet					1:1	A		

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
70233-X70 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4	4	4	4	4
	C	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	2	2
70233-X71 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3	3	3	3	3	3	3
	C	3	3	3	3	3	3	3	3	3	3	3	3
	B	1	1	1	1	1	1	1	1	1	1	1	1
	A	3	3	3	3	3	3	3	3	3	3	3	3
70233-X72 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	4	4	4	4	4	4	4	4	4	4	4	4
	B	4	4	4	4	4	4	4	4	4	4	4	4
	A	19	19	19	19	19	19	19	19	19	19	19	19
70233-X73 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3	3	3
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	3	3	3	3	3	3	3	3	3	3	3	3
70233-X74 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
70233-X75 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	3	3	3	3	3	3	3	3	3	3	3	3
70233-X76 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	19	19	19	19	19	19	19	19	19
	C	1	1	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1
	A	19	19	19	19	19	19	19	19	19	19	19	19
70233-X77 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3	3	3
	B	19	19	19	19	19	19	19	19	19	19	19	19
	A	3	3	3	3	3	3	3	3	3	3	3	3
70233-X78 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1
	B	3	3	3	3	3	3	3	3	3	3	3	3
	A	1	1	1	1	1	1	1	1	1	1	1	1
70233-X79 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3	3	3	3	3	3	3
	C	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
70233-X80 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8	8	8	8	8	8	8
	C	6	6	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6
	A	6	6	6	6	6	6	6	6	6	6	6	6
70233-X81 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7
	B	5	5	5	5	5	5	5	5	5	5	5	5
	A	7	7	7	7	7	7	7	7	7	7	7	7
70233-X82 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	8	8	8	8	8	8	8	8	8	8	8	8
	B	8	8	8	8	8	8	8	8	8	8	8	8
	A	20	20	20	20	20	20	20	20	20	20	20	20
70233-X83 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7	7	7	7	7
	B	6	6	6	6	6	6	6	6	6	6	6	6
	A	7	7	7	7	7	7	7	7	7	7	7	7
70233-X84 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0. XX ±0.13	projection	title	METRAL SIGNAL HEADER			
AG				angles	.XXX ±.051		2 MOD, 4 ROW PRESS-FIT				
				dr	±°		product family	METRAL			
				eng	T. BRUNGARD 11/19/99		size	213			
				ctr	M. STRAWSER 11/19/99		dwg no	70233			
				appd	M. STRAWSER 02/29/00	scale	7				
sheet	revision					1:1					
index	sheet										

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METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X85 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6
	A	7	7	7	7	7	7	7	7
70233-X86 SEE NOTE 11 LEAD FREE OPTION	D	20	20	20	20	20	20	20	20
	C	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5
	A	20	20	20	20	20	20	20	20
70233-X87 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7
	B	20	20	20	20	20	20	20	20
	A	7	7	7	7	7	7	7	7
70233-X88 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5
	B	7	7	7	7	7	7	7	7
	A	5	5	5	5	5	5	5	5
70233-X89 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7
	C	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6
	A	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X90 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12
	C	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	A	10	10	10	10	10	10	10	10
70233-X91 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11
	C	11	11	11	11	11	11	11	11
	B	9	9	9	9	9	9	9	9
	A	11	11	11	11	11	11	11	11
70233-X92 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10
	C	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12
	A	21	21	21	21	21	21	21	21
70233-X93 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11
	B	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11
70233-X94 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
70233-X95 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11
70233-X96 SEE NOTE 11 LEAD FREE OPTION	D	21	21	21	21	21	21	21	21
	C	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9
	A	21	21	21	21	21	21	21	21
70233-X97 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11
	B	21	21	21	21	21	21	21	21
	A	11	11	11	11	11	11	11	11
70233-X98 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9
	B	11	11	11	11	11	11	11	11
	A	9	9	9	9	9	9	9	9
70233-X99 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11
	C	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	A	10	10	10	10	10	10	10	10

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI	
lfr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	www.fciconnect.com	
AG					0.XX ±0.13		title	METRAL SIGNAL HEADER	
				angles	.XXX ±.051		2 MOD, 4 ROW PRESS-FIT		
				dr	T. BRUNGARD 11/19/99	product family	METRAL	code	213
				eng	M. STRAWSER 11/19/99	size	dwg no	sheet	8
				chr	M. STRAWSER 11/19/99	scale	70233		
				appd	M. STRAWSER 02/29/00	1:1			
sheet index	revision sheet								

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PRODUCT NUMBER
70233-XYX
70233-XYXLF

NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL
POLYMER 30 % GLASS.
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL:
55422 -XYX IS SnPb
55422-XYXLF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE.

PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-AYX	TELCORDIA CO	SEE NOTE 9
-N1YX	TELCORDIA CO (NXT)	-
-N5YX	TELCORDIA UE (NXT)	-
-1YX	TELCORDIA CO	-
-2YX	TELECOM CLASS	-
-3YX	IEC CLASS 1	-
-5YX	TELCORDIA UE	-
-AYXLF	TELCORDIA CO	SEE NOTE 10
-N1YXLF	TELCORDIA CO (NXT) IEC CLASS 1	SEE NOTE 10
-N5YXLF	TELCORDIA UE (NXT)	SEE NOTE 10
-1YXLF	TELCORDIA CO IEC CLASS 1	SEE NOTE 10
-2YXLF	TELECOM CLASS	SEE NOTE 10
-5YXLF	TELCORDIA UE	SEE NOTE 10

- PRODUCT MARKING:
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXXX-XXXP OR XXXXX-XXXP L
- PRODUCT SPECIFICATION GS-12-180
APPLICATION SPECIFICATION BUS-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
- A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE).
- THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING (DRAWING NO.)-N1--- OR (DRAWING NO.)-N5--- WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1--- AND (DRAWINGS NO.)-N5--- WILL NOT WITHSTAND REFLOW AND Au CONTACT SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.
EXAMPLE: 70233-X01LF

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcjconnect.com	
ltr	ecm no.	dr	date	linear	0.X ±0.3	projection	COPY	METRAL SIGNAL HEADER			
AG					0.XX ±0.13			2 MOD, 4 ROW PRESS-FIT			
				angles	.XXX ±.051			product family	METRAL	code	213
				dr	T.BRUNGARD 11/19/99	scale	1:1	size	dwg no	70233	sheet
				eng	M.STRAWER 11/19/99					g	9
				chr	M.STRAWER 11/19/99						
				appd	M.STRAWER 02/29/00						
sheet index	revision sheet										



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